6	Refixing Stone Slabs of Drains and pointing in C.M (1:3)	Work done up to the billed quantity and quantity is satisfactory
7	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.	Work done up to the billed quantity and quantity is satisfactory
8	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13.(using available stones)	Work done up to the billed quantity and quantity is satisfactory
9	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13.	Work done up to the billed quantity and quantity is satisfactory
10	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2.	Work done up to the billed quantity and quantity is satisfactory
11	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer incharge. (Data Rate)	Work done up to the billed quantity and quantity is satisfactory
12	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer incharge. (Data Rate)	Work done up to the billed quantity and quantity is satisfactory
13	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete	Work done up to the billed quantity and quantity is satisfactory
14	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8	Work done up to the billed quantity and quantity is satisfactory
15	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in	Work done up to the billed quantity and quantity is satisfactory

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	accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301	TEJUS CONSULTANTS
16	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3	Work done up to the billed quantity and quantity is satisfactory
17	KSRRB M300-59.1. Loosening of the ground upto a level of 500mm below the subgrade level, watered, graded and compacted in layers to meet requirement of Table 300-2 for subgrade construction complete as per specifications. Case-IICompacting original ground supporting subgrade, (which includes watering charges & compaction by vibratory roller) MORTH Specification No. 305.3.4	Work done up to the billed quantity and quantity is satisfactory
18	KSRRB M400-6.2: Construction of granular sub-base by providing Close graded material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with mortar grader on prepared surface and compacting with vibratory roller to achieve the desired density, complete as per specifications. A Plant Mix methad For Grading II Material	Work done up to the billed quantity and quantity is satisfactory
19	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406	Work done up to the billed quantity and quantity is satisfactory
20	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502	Work done up to the billed quantity and quantity is satisfactory
21	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5	Work done up to the billed quantity and quantity is satisfactory
22	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5	Work done up to the billed quantity and quantity is satisfactory
23	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10,	Work done up to the billed quantity and quantity is satisfactory

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Name of the work: Widening of Attur Road from Major Sandeeep Unnikrishanan Road to Attur IPP Hospital Road in ward No.03.

Contractor/Agency : Sri. B.B.Umesh

Name of the Client : Executive Engineer, Project Division
Yelahanka Zone, BBMP, Bangalore.

Estimated Cost : Rs.100.00 Lakhs

Status of Bill : 1st and Final Bill

In the Presence of : (a) B.N.Pradeep
Assistant Engineer, BBMP, Bangalore.
: (b) Jagadish .S
Assistant Executive Engineer, BBMP, Bangalore
: (b) Mr. Mahesh, Site Engineer
M/s Tejus Consultants
: (c) B.B.Umesh, Bangalore.

Sl. No	Description of the Item	Comments/observation
1.	MS00-13.1. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including TRP and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviable material with all lifts complete as per specifications. 1. By mechanical means, A. Cement concrete Grade M-15 & M-20	Work done up to the billed quantity and quantity is satisfactory
2.	MS00-15.2. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including TRP and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry B. Rubble Stone maonry in cement mortar	Work done up to the billed quantity and quantity is satisfactory
3.	Removing and Resetting of Footpath Slab	Work done up to the billed quantity and quantity is satisfactory
4.	Removing R.S Slab of Drain and Stacking	Work done up to the billed quantity and quantity is satisfactory
5.	MS00-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification.	Work done up to the billed quantity and quantity is satisfactory

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In the Presence of : (a) B.N.Pradeep
Assistant Engineer, BBMP, Bangalore.
: (b) Jagadish .S
Assistant Executive Engineer, BBMP, Bangalore
: (b) Mr. Mahesh, Site Engineer
M/s Tejus Consultants
: (c) B.B.Umesh, Bangalore.

Sl. No.	Description of the Item	Comments/observation
1	SSRR M200-13.1. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including TAP and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. I. By mechanical means, A. Cement concrete Grade M-15 & M-20	Work done up to the billed quantity and quantity is satisfactory
2	SSRR M200-15.2. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including TAP and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. (ii) Dismantling Stone Masonry B. Rubble Stone maonry in cement mortar	Work done up to the billed quantity and quantity is satisfactory
3	Removing and Resetting of Footpath Slab	Work done up to the billed quantity and quantity is satisfactory
4	Removing R.S Slab of Drain and Stacking	Work done up to the billed quantity and quantity is satisfactory
5	SSRR M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. NOTE:	Work done up to the billed quantity and quantity is satisfactory

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	complete in all respects complete as per specification MORTH specification No. 507	TEJUS CONSULTANTS
24	KSRRB M500-19. Providing and laying bituminous concrete 40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 6% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509	Work done up to the billed quantity and quantity is satisfactory
25	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.	Work done up to the billed quantity and quantity is satisfactory
26	Providing and fixing of Reflective Raised Pavement marker (RPM's) / Cat eyes / Road studs confirming to ASTM D4280 type H, having reflective panels made of prismatic lens of total internal reflection, the prismatic lens should be electronically fixed (welded) to the body made of polycarbonate mould, with a height of 20mm, size of 130mm x 105mm and reflecting area of 13sqm with the slope of retro reflective surface within the limit of 35 + 5 degree to the base on either side. The marker shape ll display an initial minimum luminous intensity of 279mcd/ lux at an entrance angle of zero degree and observation angle of 0.2 degree. The corresponding values for 20 degree entrance and 0.2 degree observation angle shall be 112 mcd / lux with color multiplying factor on either cases for white, yellow and red markers being 1.0, 0.6 and 0.25 respectively. The RPM's should be fixed by using two numbers of polymer shanks using appropriate adhesive as recommended and certified by the RPM manufacturer. The raised pavement marker should support a sufficient minimum load 13635 Kg in accordance with ministry specification.	Work done up to the billed quantity and quantity is satisfactory

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